**Observation:**

Results show that Classic Coca-Cola had 1.36RI, the highest refractive index amount; 3.38 g of sugar concentration, 39.4 cm for X and 84.2 cm for L measurements; and 25.2 for the minimum deviation (0md).

Classic Pepsi-Cola, on other hand, had 1.35RI; 3.33 g of sugar concentration, 39 cm for X and 84 cm for L measurements; and 25 for the minimum deviation.

Subsequently, both Diet Coca-Cola and Pepsi-Cola had 1.34RI; 0 g of sugar concentration, 37 cm for X and 83 cm for L measurements; and 24 for the minimum deviation.

According to Table 2, the prism filled with Classic Coca-Cola had the highest number of refractive index, sugar concentration, X and L measurement, and minimum deviation (0md), with the prism filled with Classic Pepsi-Cola having the second most of the amounts.

Subsequently, both prisms filled with Diet Coca-Cola and Pepsi-Cola had the same level of number of refractive index, sugar concentration, X and L measurement, and minimum deviation, with both having the least amounts. Compared to the control variables air and water, the four experimental variables proved to be greater in amount.
Conclusion:

We therefore conclude that Coca-Cola Classic had the highest amount of sugar concentration, with the Classic Pepsi-Cola having the second highest amount.
Bibliography


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